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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/773,135	02/04/2004	Arthit Sitiso	MICRON-43919	5088
26252	7590 08/30/2006		EXAM	INER
KELLY LOWRY & KELLEY, LLP			HOFFMAN, MARY C	
6320 CANOGA AVENUE SUITE 1650			ART UNIT	PAPER NUMBER
WOODLANI	O HILLS, CA 91367	3733		
			DATE MAILED: 08/30/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/773,135	SITISO ET AL.
Office Action Summary	Examiner	Art Unit
	Mary Hoffman	3733
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailling date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MONT te, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. INDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 6/27 2a)□ This action is FINAL . 2b)⊠ Thi 3)□ Since this application is in condition for alloware closed in accordance with the practice under	s action is non-final. ance except for formal matte	
Disposition of Claims		
4) ⊠ Claim(s) <u>1,3,5-13,16-21 and 24-27</u> is/are pend 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3,5-13,16-21 and 24-27</u> is/are rejection is/are objected to. 8) □ Claim(s) are subject to restriction and/or	awn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examin- 10) ☑ The drawing(s) filed on 04 February 2004 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	re: a) \square accepted or b) \boxtimes oe drawing(s) be held in abeyand ction is required if the drawing(s	e. See 37 CFR 1.85(a). i) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. Its have been received in Appority documents have been reule (PCT Rule 17.2(a)).	plication No eceived in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		/Mail Date ormal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, 5, 7-13, 16, 18-21, 24 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Biedermann et al. (U.S. Patent No. 6,723,100).

Biedermann et al. disclose various embodiments of a pedicle screw assembly comprising a pedicle screw having a head portion and a threaded shaft portion extending from the head portion, and a body having an aperture, a rod passageway, and oppositely threaded internal and external threads. The set screw has exterior threads for engaging the internal threads of the body and a nut having internal threads for engaging the external threads of the body. The head portion of the pedicle screw includes a rounded head, and the head and base form a spherical joint. A compression washer is disposed in the base for retaining the head of the pedicle screw within the base. The compression washer is press-fit within the base and includes a concave facet disposed above the head of the pedicle screw. The threaded portion of the pedicle screw is tapered. The assembly of pedicle screw includes a drive slot formed in the head portion. The rod passageway and the pedicle screw aperture of the body are transverse to one another. A rod extends through the rod passageway. The set screw is capable of traveling within the body and contacting the rod, securing it in place within

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the body. The set screw includes a drive slot therein for tightening by a driver device. The assembly of nut has a polygonal outer configuration. The set screw and nut are fastened in opposite directions. Biedermann et al further disclose a spinal fixation system comprising a plurality of pedicle screw assemblies, and a rod extending between the pedicle screw assemblies. The system pedicle screw includes a drive slot formed in the head portion. The compression washer defines a generally planar surface on the upper surface facing the rod assembly. A tightening device is disclosed for simultaneously tightening the set screw and the nut, comprising a wrench with a handle, and a diver with a handle. The wrench has a shaft and socket, and the driver has a shaft slidably extending through the wrench. The driver has a driver end. (See marked-up figures below).

With regard to statements of intended use and other functional statements, i.e. "configured to", "for use', etc., they do not impose any structural limitations on the claims distinguishable over Biedermann et al., which is capable of being used as claimed if one so desires to do so. *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963). Furthermore, the law of anticipation does not require that the reference "teach" what the subject patent teaches, but rather it is only necessary that the claims under attack "read on" something in the reference. Kalman v. Kimberly Clark Corp., 218 USPQ 781 (CCPA 1983). Furthermore, the manner in which a device is intended to be employed does not differentiate the claimed apparatus from prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6, 17, 20, 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biedermann et al. (U.S. Patent No. 6,723,100) in view of Halm et al. (U.S. Patent No. 5,738,685).

Biedermann et al. disclose the claimed invention except for a major diameter of the threaded portion being generally constant, and a minor diameter of the threaded portion being tapered, and the shank portion is approximately the diameter of the constant major diameter.

Halm et al. disclose a bone screw having a major diameter of the threaded portion being generally constant, and a minor diameter of the threaded portion being tapered and the shank portion is "approximately" the diameter of the constant major diameter to obtain a clamping effect by means of which the bone screw is additionally held in the bone (col. 3, paragraph 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the bone screw of Biedermann et al. with a major diameter of the threaded portion being generally constant, and a minor diameter of the threaded portion being tapered, and the shank portion is approximately the diameter of

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the constant major diameter in view of Halm et al. in order to obtain additional means of holding the bone screw in the bone.

R U.S. Patent US 6,723,100 B2 Apr. 20, 2004 Sheet 1 of 4 Polygonal Drive Slot External Threads internal Threads - Nut Planar Surface Concave Facet Compression-Washer Spherical Head (comprises spherical joint allowing 15 degrees of rotation) Drive Slot Threaded Shaft Portion Rod Passageway

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Response to Arguments

Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary Hoffman whose telephone number is 571-272-5566. The examiner can normally be reached on Monday-Friday 9:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo C. Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MCHmch

EDUARDO C. ROBERT SUPERVISORY PATENT EXAMINER